

We Claim:

1. An LED light spreader comprising a series of partial cylindrical lengths interposed with partial frustoconical lengths forming an elongated member having a rounded surface and a light emitting surface.
2. The LED light spreader of Claim 1 wherein said elongated member is comprised of a transparent material.
3. The LED light spreader of Claim 1 wherein said rounded surface is coated with a reflective material.
4. The LED light spreader of Claim 1 wherein said elongated member further comprises a semicircular light gathering end.
5. The LED light spreader of Claim 1 wherein said light emitting surface is planar.
6. The LED light spreader of Claim 1 wherein said light emitting surface is concave.
7. An elongated LED light spreader formed of a light-transmissible material comprising a light conductive end, an optical path conversion side, and a planar light transmitting side; wherein said optical path conversion side has a plurality of light transmissible lengths being interposed with prismatic lengths, said light transmissible lengths having a surface substantially equidistant from said light transmissible side.
8. The LED light spreader of Claim 7 wherein said light spreader is comprised of a plastic translucent material.
9. The LED light spreader of Claim 7 wherein said optical path conversion side is coated with a reflective material.
10. The LED light spreader of Claim 7 wherein said light conductive end is planar.
11. The LED light spreader of Claim 7 wherein said light conductive end is concave.

12. An elongated transparent member comprised of a flat side and a rounded side, wherein said rounded side has a series of sections, said sections having a first length of a constant arc radius and a second length of linearly decreasing arc radius.
13. The transparent member in claim 12 wherein said series of sections has a final section, wherein said length of constant arc radius of said final section ends with a planar surface.
14. The transparent member in claim 12 wherein said series of sections has a final section, wherein said length of constant arc radius of said final section ends with a point.
15. The transparent member in claim 12 wherein said series of sections has in the range of approximately 3 to 300 of said sections.
16. The transparent member of Claim 12 wherein said rounded side is coated with a reflective material.
17. An elongated LED light spreader comprised of a light-transmissible material having a light conductive end, a light emitting flat surface, and an optical path conversion means; said optical path conversion means is a plurality of partial cylindrical lengths interposed with partial frustoconical lengths forming said flat surface.
18. The LED light spreader of Claim 17 wherein said light conductive end is planar.
19. The LED light spreader of Claim 17 wherein said light conductive end is concave.
20. The LED light spreader of Claim 17 wherein said transparent substrate is plastic.
21. The LED light spreader of Claim 17 wherein said optical path conversion means is coated with a reflective material.